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Esmaeili et al.

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(54) **MAGNETIC SURFACE CONTACTS**

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See application file for complete search history.

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(57) **ABSTRACT**

This application relates to magnetically actuated electrical connectors. The electrical connectors includes movable magnetic elements that move in response to an externally applied magnetic field. In some embodiments, the electrical connectors includes recessed contacts that move from a recessed position to an engaged position in response to an externally applied magnetic field associated with an electronic device to which the connector is designed to be coupled. In some embodiments, the external magnetic field has a particular polarity pattern configured to draw contacts associated with a matching polarity pattern out of the recessed position.

17 Claims, 14 Drawing Sheets

